

ship June 16

Work Order ID 147127

Thursday, June 02, 2016 11:10:11 AM

147127

Page 1

Item ID: 647.3702 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: . Stop ***NS2***
 Item Name: 412 Cable Cutter System, High
 Start Date: 6/3/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 6/16/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: Em Date: 6/06/02 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								
100			DAS						
100	DOCUMENT CONTROL	0.00 9-89							
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.3702								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.01							
Quality Control									

JUN 07 2016

DAS
28
9-89

JUN 14 2016
JUN 14 2016

DAS
6
9-89

DAS
27
9-89

JUN 07 2016

DAS
28
9-89

JUN 14 2016

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Work Order ID: 147127

147127

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

IPP
IPP REV:C AS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082 C/R3212-4-1 *601 3082* RIVET CR3212-4-1 DAS 28 9-89		Purchased	No				Each	0.0000		6			DAS 6 9-89
									**	130388			DAS 27 9-89
647.3903 *647 3903* Deflector Assembly DAS 28 9-89		Manufactured	No				Each	0.0000		1			DAS 6 9-89
									**	146235			DAS 27 9-89
647.3801 *647 3801* 412 Upper Cutter Assy DAS 28 9-89		Manufactured	No			110	Each	6.0000	1	1			DAS 6 9-89
									**				DAS 27 9-89
													DAS 6 9-89
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9102 8 0 JUN

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Work Order ID: 147127

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

647.4410 **DAS** Manufactured No
28
9-89
647 4410
Rail

110 Each 15.0000 1 1

DAS DAS
6 27
9-89 9-89

Location Loc Qty Loc Code

CCK081 15
120986 15

647.4010 Manufactured No
647 4010
Wiper Deflector RH **DAS**
28
9-89

110 Each 19.0000 1 1

DAS
6
9-89 **DAS**
27
9-89

Location Loc Qty Loc Code

cck87 19
120740 17
m129721 2

647.4011 Manufactured No
647 4011
Wiper Deflector LH

110 Each 18.0000 1 1

DAS
6
9-89 **DAS**
27
9-89

Location Loc Qty Loc Code

cck78 18
120741 16
m129721 2

647.4110 Manufactured No
647 4110
Doubler

110 Each 15.0000 1 1

DAS
6
9-89 **DAS**
27
9-89

Location Loc Qty Loc Code

CCK080 15
120987 15

DAS
28
9-89

9102 8 0 Nnr

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Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

647.4111

Manufactured No

110

Each

16.0000

1

1

647 4111

Doubler

DAS
28
9-89

Location

Loc Qty

Loc Code

cck111

16

120743

16

**

DAS
27
6
9-89

647.4112

Manufactured No

110

Each

4.0000

1

1

647 4112

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

4

126770

4

**

DAS
27
6
9-89

647.4113

Manufactured No

110

Each

4.0000

1

1

647 4113

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

4

126771

4

**

DAS
27
6
9-89

647.4114

Manufactured No

110

Each

37.0000

2

2

647 4114

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

37

120635

9

120746

28

**

DAS
27
6
9-89

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Work Order ID: 147127

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

647.4115 Manufactured No

110 Each 22.0000 2 2

647 4115

Shim

DAS
28
9-89

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

22

120747

22

2

647.4116 Manufactured No

110 Each 20.0000 1 1

647 4116

Shim

DAS
28
9-89

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

20

121064

20

1

647.4210 Manufactured No

110 Each 15.0000 1 1

647 4210

Bracket LH

DAS
28
9-89

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

1

120749

1

CCK123

14

121086

14

1

647.4211 Manufactured No

110 Each 15.0000 1 1

647 4211

Bracket RH

DAS
28
9-89

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK123

15

121134

15

1

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Work Order ID: 147127

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

647.4311 Manufactured No

110 Each 3.0000 1 1

647 4311

RH Lower Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK67

3

126397

3

647.4310 Manufactured No

110 Each 18.0000 1 1

647 4310

LH Lower Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

cck066

18

126395

18

647.4312 Manufactured No

110 Each 0.0000 1 1

647 4312

LH Upper Strut

DAS
28
9-89

647.4313 Manufactured No

110 Each 0.0000 1 1

647 4313

RH Upper Strut

DAS
28
9-89

NAS1149FN832P Purchased No

110 Each 1,989.000 34 34

NAS1149FN832P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

457

M133316

16

M133769

441

ST260a

1200

M134257

1200

ST264

332

M133709

332

DAS
6
9-89

JUN 14 2016

34

Dr
6
9-89
DAS
27
9-89

DAS
6
9-89
DAS
27
9-89

JUN 08 2016

JUN 14 2016

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

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Work Order ID: 147127

147127

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

2,269.000

157

157

NAS1149F0332P

Washer

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

GA

312

m133709

312

ST262

1957

m134257

37

m134676

1920

157

MS27039-1-07

Purchased

No

110

Each

309.0000

12

12

MS27039-1-07

Screw

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

GA

304

125654

304

Return2016

1

m127813

1

ST281

4

125654

4

18

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Work Order ID: 147127

147127

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

746.0000

42

42

MS27039-1-10

SCREW

DAS
6/27/16
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

14

m129541

14

over 006

300

m134567

300

OVER007

300

m134676

300

ST280

91

m134370

91

42

MS27039-08-08

Purchased

No

110

Each

63.0000

16

16

MS27039-08-08

Screw

DAS
6/27/16
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

ST278

55

m134142

55

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Work Order ID: 147127

147127

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647 3702

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Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

110

Each

193.0000

14

14

MS27039-1-09

Screw

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

123

m134167

123

MS27039-08-11

Purchased

No

110

Each

464.0000

2

2

MS27039-08-11

SCREW

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

300

m134676

300

ST278

164

m133769

164

MS24694-S49

Purchased

No

110

Each

222.0000

1

1

MS24694-S49

Screw

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

222

m129499

100

m129702

122

MS24694-C53

Purchased

No

110

Each

80.0000

8

8

MS24694-C53

Screw

JUN 08 2016
DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

80

m129702

80

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Work Order ID: 147127

147127

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

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Start Qty: 1.00

Required Qty: 1.00

601.3073 Purchased No

110 Each 7.0000 1 1

DAS 6 27
9-89 9-89

601 3073

Connector

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK099

7

M133781

1

M134531

1

M134739

5

AN3-4A Purchased No

110 Each 78.0000 3 3

DAS 6 27
9-89 9-89

AN3-4A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

78

m134502

78

AN3-11A Purchased No

110 Each 189.0000 8 8

DAS 6 27
9-89 9-89

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m134852

100

ST349

89

m134167

89

AN3C10A Purchased No

110 Each 16.0000 2 2

DAS 6 27
9-89 9-89

AN3C10A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST349

16

m134167

16

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Work Order ID: 147127

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-2 Purchased No

110 Each 132.0000 6 6

CR3212-4-2

Cherry Rivet

DAS 6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST320

132

M130388

122

m133363

10

2
4

CR3212-4-3 Purchased No

110 Each 0.0000 17 17

CR3212-4-3

Cherry Rivet

DAS 6 27
9-89 9-89

DAS
28
9-89

CR3212-4-04

Purchased

No

110 Each 0.0000 4 4

CR3212-4-4

CHERRY RIVET

DAS 6 27
9-89 9-89

DAS
28
9-89

CCR264SS3-04

Purchased

No

110 Each 475.0000 12 12

CCR264SS3-04

Rivet

DAS 6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

475

123785

400

m129702

75

12
16

CCR264SS-3-03 Purchased No

110 Each 231.0000 16 16

CCR264SS-3-03

Rivet

JUN 08 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

LG001

159

m128606

29

m134023

130

ST321

72

m134396

72

16

DAS 6 27
9-89 9-89

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Work Order ID: 147127

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-2 Purchased No

110 Each 210.0000 13 13

CR3213-4-2

Cherry Rivet

128936

DAS 6 27 9-89

DAS 28 9-89

Location Loc Qty Loc Code

CCK003 192

123301 192

ST319 18

m131340 18

CR3213-4-3 Purchased No

110 Each 264.0000 32 32

CR3213-4-3

Rivet, Cherry

DAS 6 27 9-89

DAS 28 9-89

Location Loc Qty Loc Code

CCK003 200

123301 0

m131340 200

CCK004 40

m130388 40

ST319 24

m129541 24

CR3213-4-4 Purchased No

110 Each 169.0000 19 19

CR3213-4-4

Rivet, Cherry

DAS 6 27 9-89

DAS 28 9-89

Location Loc Qty Loc Code

CCK003 100

M134654 100

ST319 69

M130388 35

M134376 34

14

5

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Work Order ID: 147127

147127

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-5 Purchased No

110 Each 225.0000 42 42

CR3213-4-5

Rivet

134494

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

M129913

100

ST319

125

M129913

125

CR3213-4-8 Purchased No

110 Each 108.0000 4 4

CR3213-4-8

Rivet

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

108

123785

108

MS21042-3 MS21042L3 Purchased No

110 Each 22.0000 79 79

MS21042-3

Nut / use MS21042L3

134634

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

22

M129682

22

MS21042-08 MS21042L08 Purchased No

110 Each 33.0000 18 18

MS21042-08

USE MS21042L08

134376

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

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Picklist Print

Thursday, June 02, 2016 11:10:22 AM

Page 13

Work Order ID: 147127

147127

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased

No

110

Each

52.0000

6

6

DAS

MS21047L 06

Nut Plate

DAS
28
9-89

**

6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST303

52

m131340

52

MS21047L08

Purchased

No

110

Each

45.0000

6

6

DAS

MS21047L 08

Nut Plate

DAS
28
9-89

**

6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

45

m129702

45

MS21047-3

Purchased

No

110

Each

121.0000

4

4

DAS

MS21047-3

Nut Plate

DAS
28
9-89

**

6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

121

m134166

71

m134676

50

MS21071L3

Purchased

No

110

Each

166.0000

4

4

DAS

MS21071L 3

ANCHOR NUT

DAS
28
9-89

**

6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST299

66

m129702

66

ST301

100

125654

100

JUN 08 2016

Thursday, June 02, 2016 11:10:22 AM

Shop Packet Print

Page 13

Picklist Print

Page 14

Thursday, June 02, 2016 11:10:22 AM

Work Order ID: 147127

147127

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 6/3/2016

Required Date: 6/16/2016

Start Qty: 1.00

Required Qty: 1.00

601.3083 Manufactured No

110

Each

8.0000

1

1

DAS

601 3083

Adhesive Rubber Seal

DAS
28
9-89

**

6

DAS

9-89

27

9-89

Location

Loc Qty

Loc Code

cck009

8

m134349

8

601.1012

600.1012

Purchased

No

110

Each

0.0000

1

1

**

DAS

27

6

9-89

601 1012

Sealant (One 6 oz)

DAS
28
9-89

601.2045

Purchased

No

110

Each

14.0000

1

1

**

DAS

27

6

9-89

601 2045

RTV (LOCTITE 598)McMaster p/n: 6641A41

Location

Loc Qty

Loc Code

CCK096

6

m133588

6

GA

8

m134260

8

DAS
28
9-89

JUN 08 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/26/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY: ENGR *[Signature]*

MFG *[Signature]*

QC

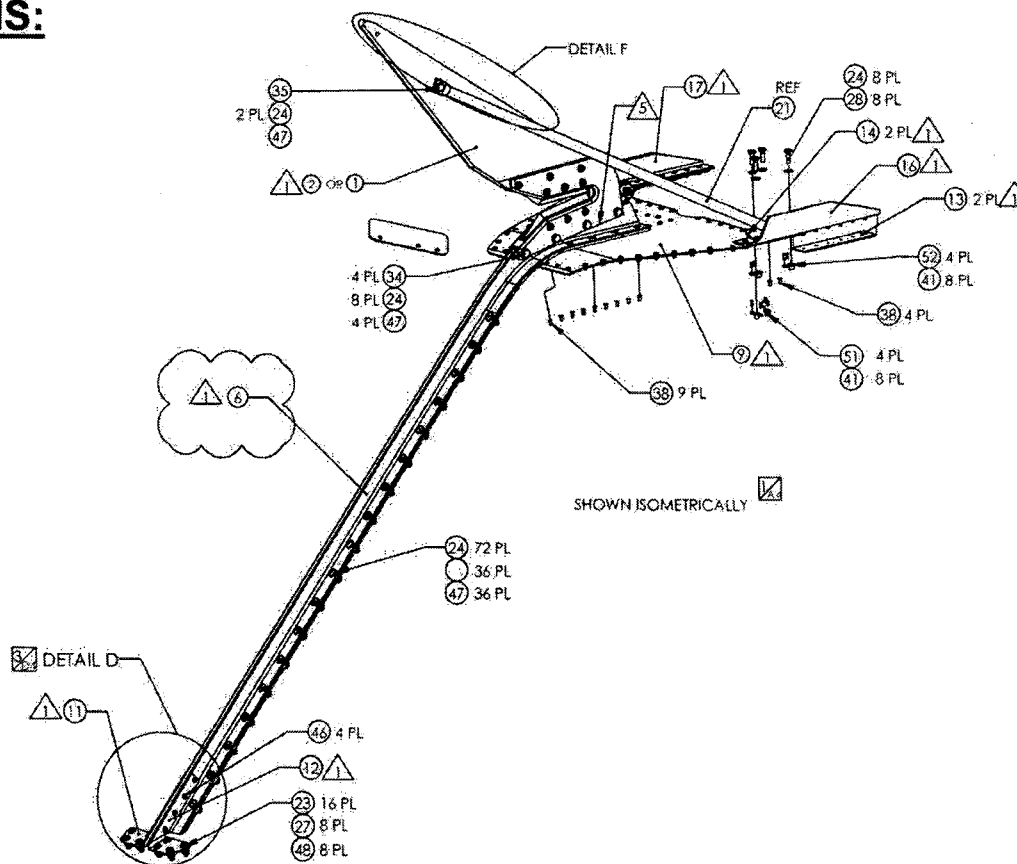
EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

ECR: N/A

SHEET 1, ZONE C5 IS:



ACTION ITEM:
1.

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF				
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY				
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION	MATERIAL	SPECIFICATION		
			QTY								
DOCUMENTS EFFECTED:							CHANGE CATEGORY	DER REVIEW REQUIRED			
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR	☐ YES ☒ NO			

w/o 147127

2m 16/06/02



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04845

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/11/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

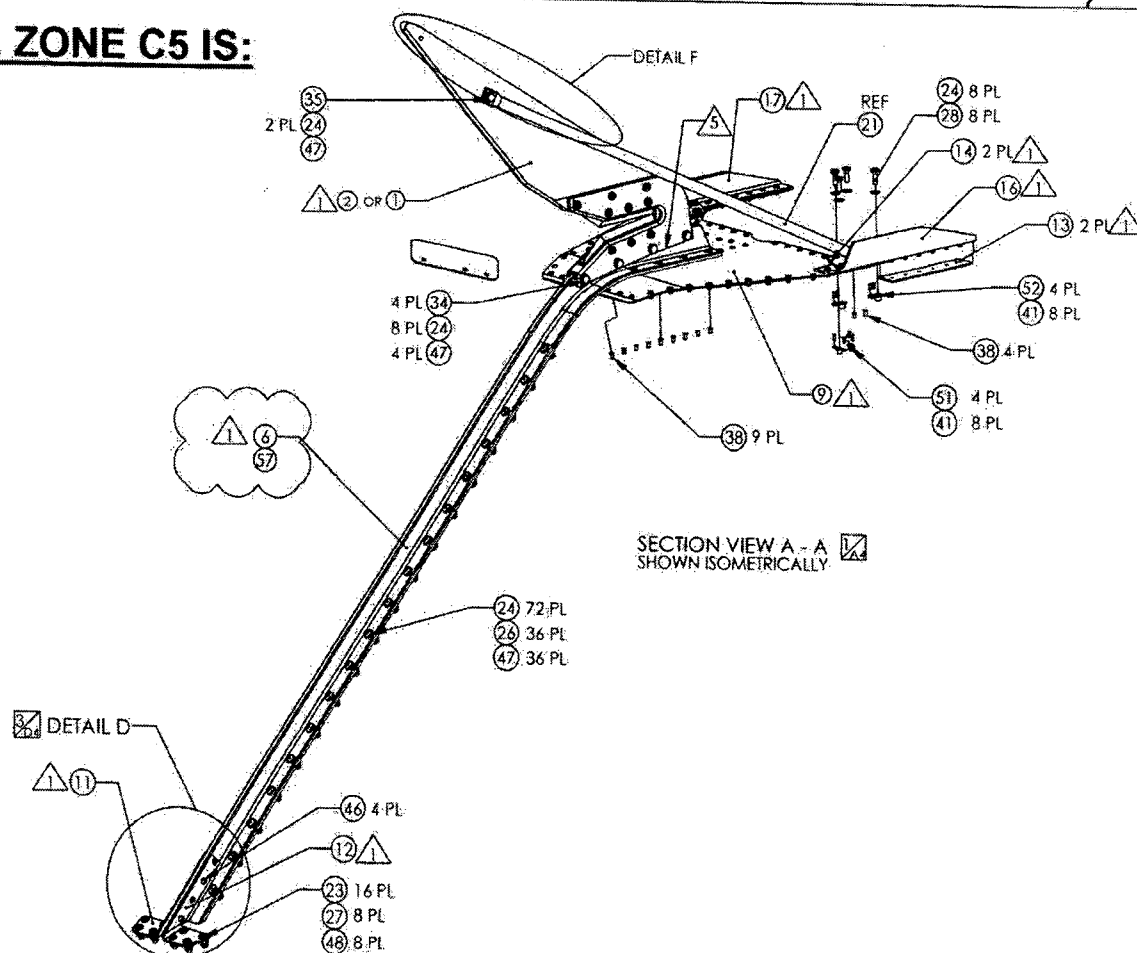
REASON: ADDED F/N 57

ECR:

SHEET 1, ZONE C5 IS:

ACTION ITEM:

1.



57	A	647.3916	1	1	1	1	DEFLECTOR UPPER HALF					
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION				MATERIAL	SPECIFICATION
			QTY									
DOCUMENTS EFFECTED:							CHANGE CATEGORY				DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR				☐ YES ☒ NO	

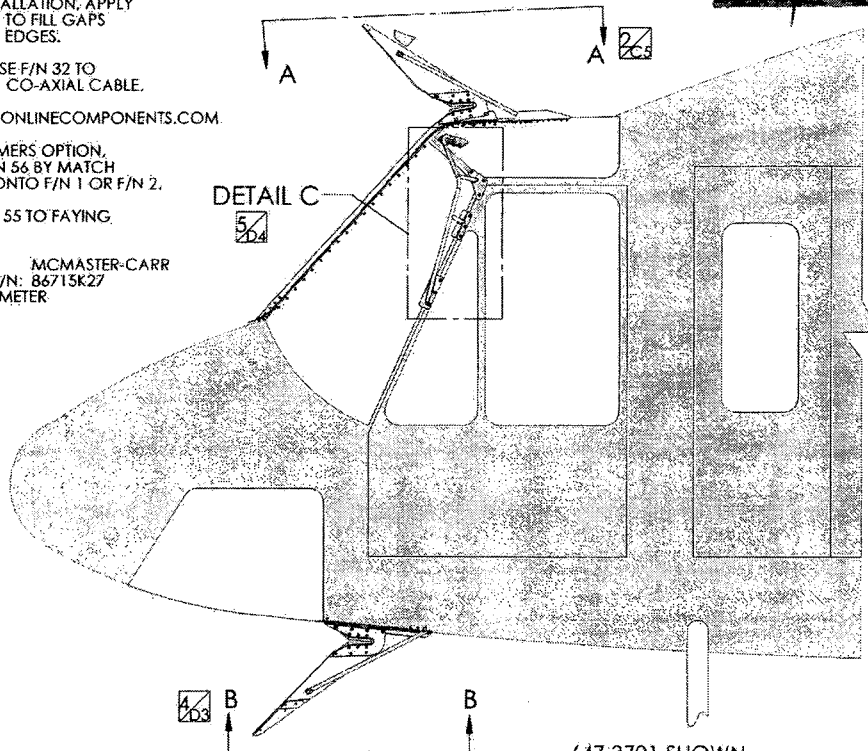
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UNINCORPORATED ECN(S)

01228, 04845, 04881

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD. USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM.
- 4 AT CUSTOMER'S OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER



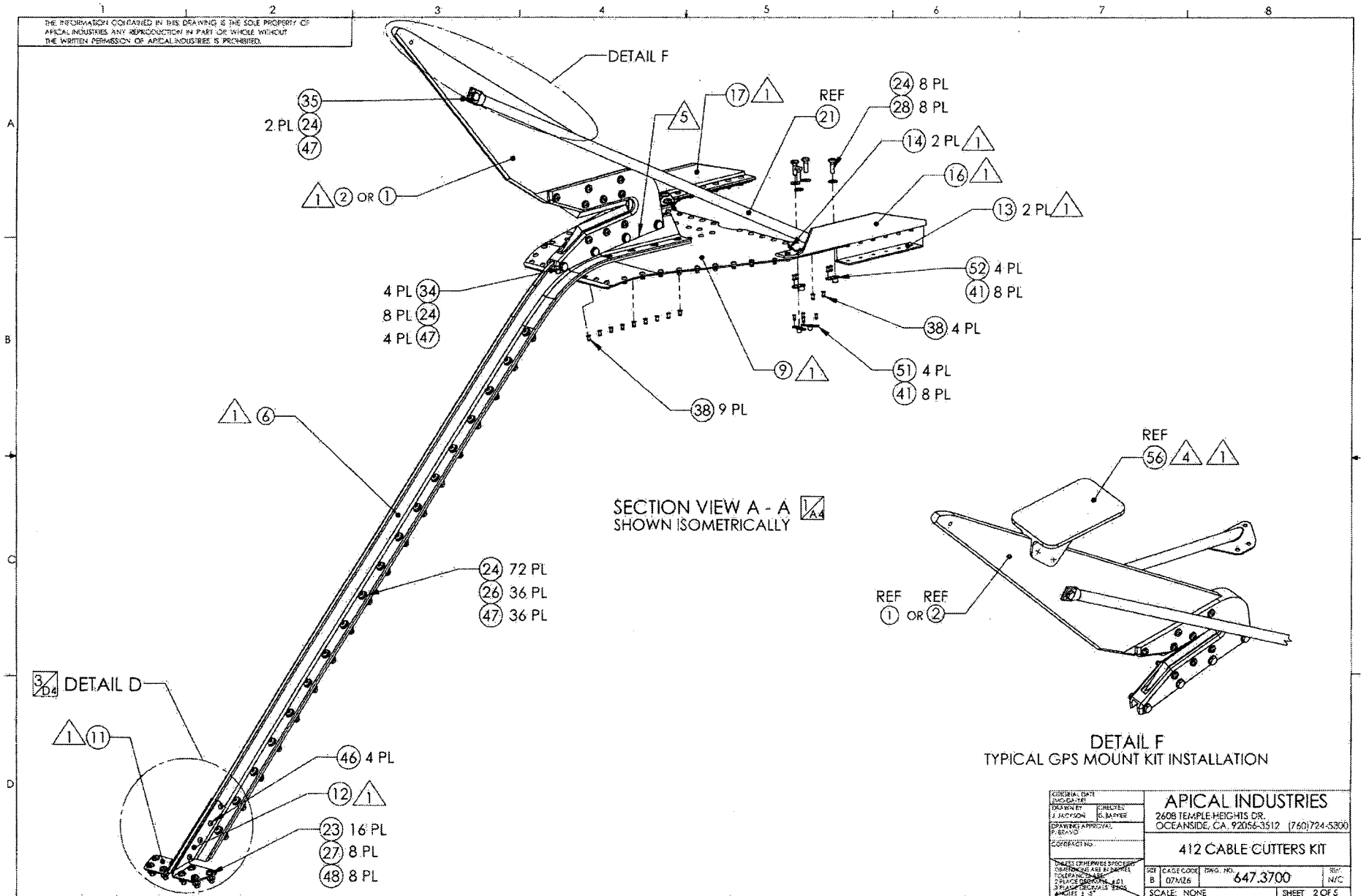
647.3701 SHOWN

REF	REF	REF	REF	56	647.3701	GPS MOUNT KIT		
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCITE 998	4
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-1425	5
				53	601.3083	ADHESIVE RUBBER SEAL	ML-4-5045	6
4	4	4	4	52	601.2957	NUTPLATE	MS2107143	
4	4	4	4	51	600.0795	NUTPLATE	MS21047-3	
6	6	6	6	50	601.3066	NUTPLATE	MS21047108	
6	6	6	6	49	601.3065	NUTPLATE	MS21047106	
18	18	18	18	48	601.2973	LOCKNUT	MS21042-08	
79	79	79	79	47	601.2943	LOCKNUT	MS21042-3	
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4-8	
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4-5	
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4-4	
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-3	
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2	
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

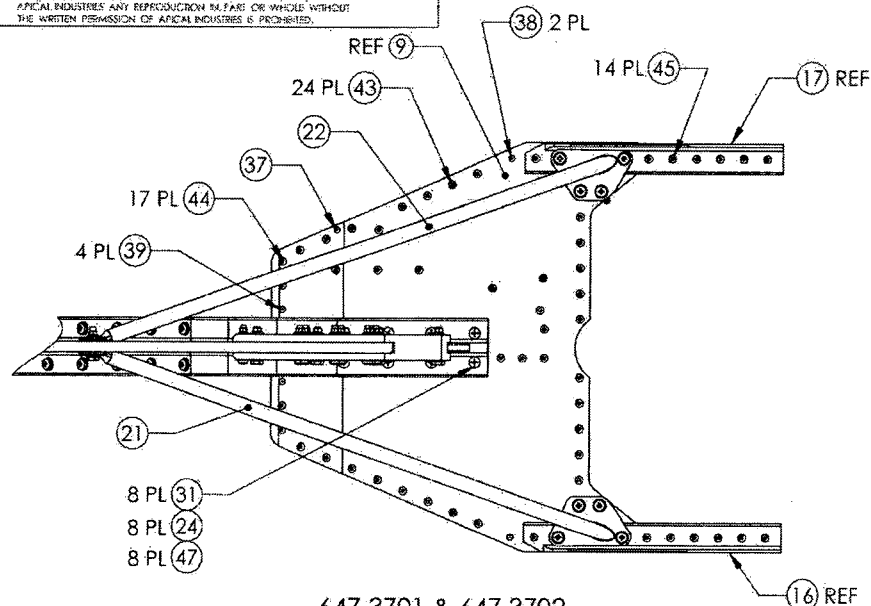
16	16	16	16	41	601.2207	NUTPLATE RIVET	CCR26455-3-03	
12	12	12	12	40	601.2491	NUTPLATE RIVET	CCR26455-3-04	
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4	
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3	
5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2	
6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1	
2	2	2	2	35	601.1874	BOLT	AN6C1DA	
8	8	8	8	34	601.2826	BOLT	AN5-11A	
3	3	3	3	33	601.2823	BOLT	AN5-4A	
1	1	1	1	32	601.3073	CONNECTOR	662-4440	3 2
8	8	8	8	31	601.2419	SCREW	MS2469-AC53	
1	1	1	1	30	601.3070	SCREW	MS2469-4-50P	
2	2	2	2	29	601.2893	SCREW	MS27039-0811	
14	14	14	14	28	601.3069	SCREW	MS27039-1-09	
16	16	16	16	27	601.2263	SCREW	MS27039-0808	
42	42	42	42	26	601.1365	SCREW	MS27039-1-10	
12	12	12	12	25	601.2198	SCREW	MS27039-1-07	
157	157	157	157	24	601.1607	WASHER	NAS1149F0302P	
34	34	34	34	23	601.2764	WASHER	NAS1149F0302P	
1	1	1	1	22	647.4313	RH UPPER STRUT		
1	1	1	1	21	647.4312	LH UPPER STRUT		
1	1	1	1	20	647.4310	LH LOWER STRUT		
1	1	1	1	19	647.4311	RH LOWER STRUT		
1	1	1	1	18	647.4212	PLATE		
1	1	1	1	17	647.4211	BRACKET RH		
1	1	1	1	16	647.4210	BRACKET LH		
1	1	1	1	15	647.4116	SHIM		
2	2	2	2	14	647.4115	SHIM		
2	2	2	2	13	647.4114	SHIM		
1	1	1	1	12	647.4113	CLIP		
1	1	1	1	11	647.4112	CLIP		
1	1	1	1	10	647.4111	DOUBLER		
1	1	1	1	9	647.4110	DOUBLER		
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH		
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH		
1	1	1	1	6	647.3915	DEFLECTOR		
1	1	1	1	5	647.4410	RAIL		
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH		
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW		
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY		
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY		
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH		
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW		
					647.3702	412 CABLE CUTTERS KIT HIGH		
					647.3701	412 CABLE CUTTERS KIT LOW		

QTY	3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
NEXT ASSY (S)									
ORIGINAL DATE: 01-27-09					CHECKED: D. HANCOCK				
DRAWN BY: J. JACKSON					DESIGNED BY: P. BRADY				
APPROVED: P. BRADY					CONTRACT NO.				
UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE AS SHOWN: FRACTIONS DECIMALS DIMENSIONS					SCALE: NONE				
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)724-5300					412 CABLE CUTTERS KIT				
647.3700					REV. N/C				
SHEET 1 OF 5									

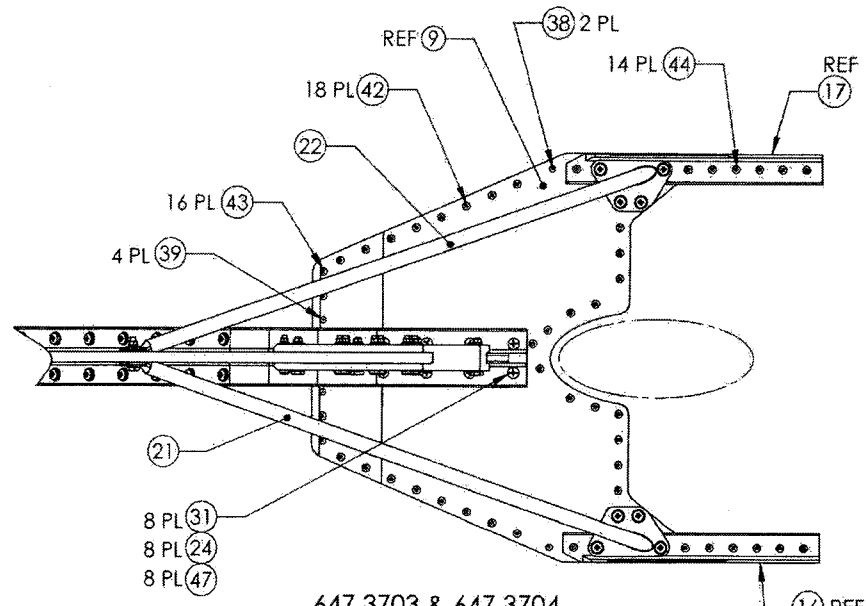
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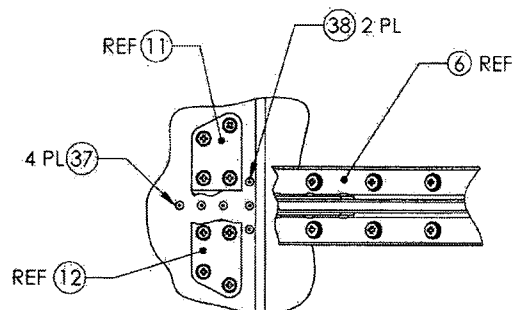
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647.3701 & 647.3702
UPPER CUTTER ASSEMBLY
TOP VIEW



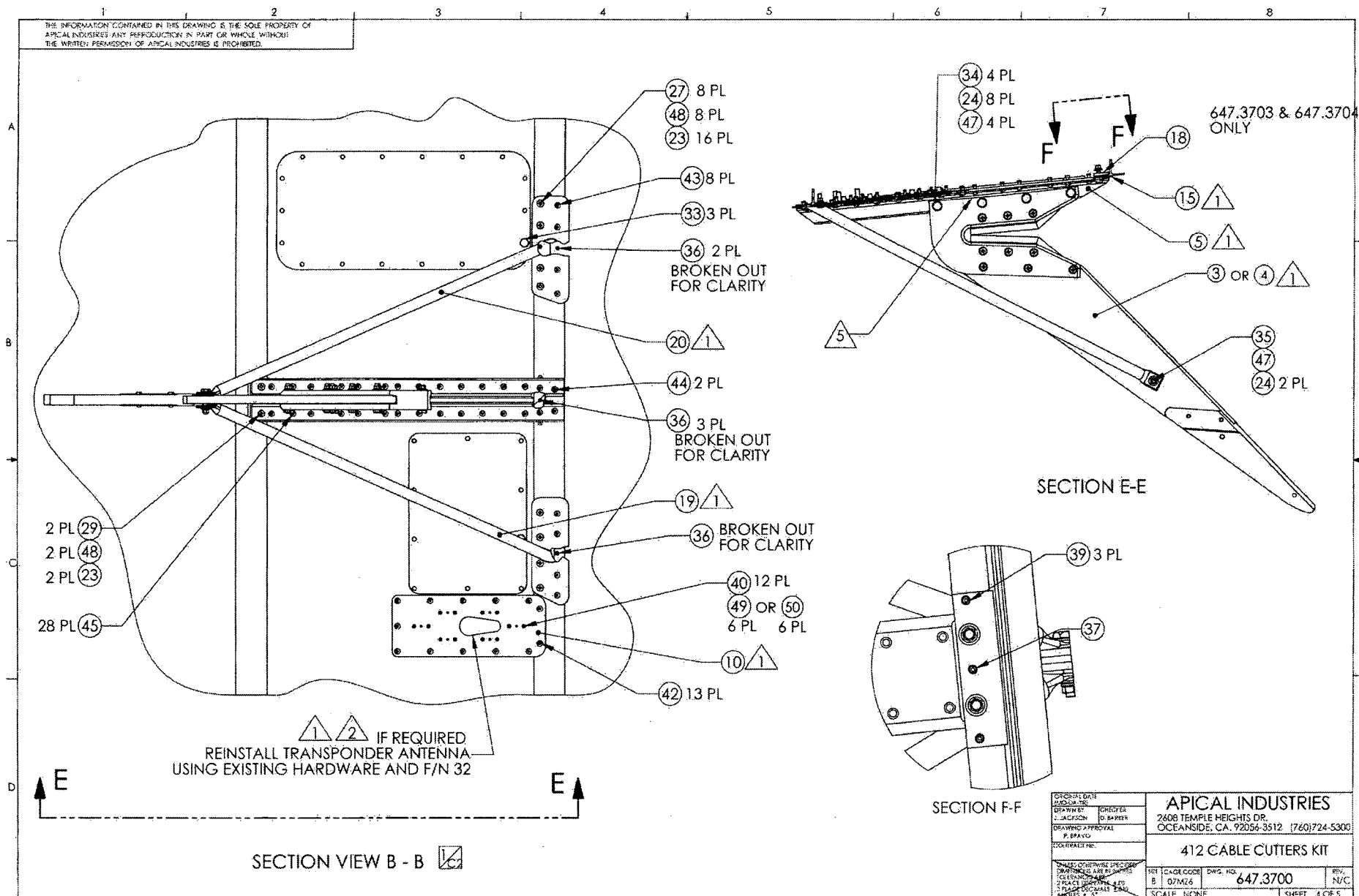
647.3703 & 647.3704
UPPER CUTTER ASSEMBLY
TOP VIEW



DETAIL D
TOP VIEW
BROKEN OUT FOR CLARITY

APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 17601724-5300	
412 CABLE CUTTERS KIT	
DATE: 07/14/26 DRAWN BY: J. JACOBSON CHECKED BY: D. BAYNE DRAWING APPROVAL: S. BRAYO CONTRACT NO.:	REV: N/C SCALE: NONE SHEET: 3 OF 5

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BROKEN OUT FOR CLARITY
RH SIDE ONLY

1 LH 8
OR
1 RH 7

DETAIL C ☒ 52
LH SHOWN, RH OPPOSITE
2 PL

28 3 PL
24 6 PL
47 3 PL

53 TRIM TO FIT

26 3 PL
24 6 PL
47 3 PL

25 6 PL
24 12 PL
47 6 PL

GENERAL NOTE: (INDICATE YES)		APICAL INDUSTRIES	
DRAWN BY	CHECKER	2608 TEMPLE HEIGHTS DR.	
J. JACKSON	D. BARKER	OCEANSIDE, CA, 92056-3512 (760)724-5300	
DRAWING APPROVAL		412 CABLE CUTTERS KIT	
P. BRAVO			
DATE			
TYPICAL DIMENSIONS SPECIFIED DIMENSIONS ARE IN PARETHS UNLESS OTHERWISE NOTED 2 PLACE DECIMALS UNLESS OTHERWISE NOTED		REV. 8 07/16	REV. N/C
		SCALE NONE	SHEET 5 OF 5



TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

04881

~~REFERENCE ONLY~~

SHEET 1 OF 1

DWG NO. 647.3700

REV:

N/C

PREPARED
BY

J. BECKER

DATE: 02/26/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG:

QC

EFF.

NEXT ORDER

REASON: DELETED F/N 57, REVISED F/N 6.

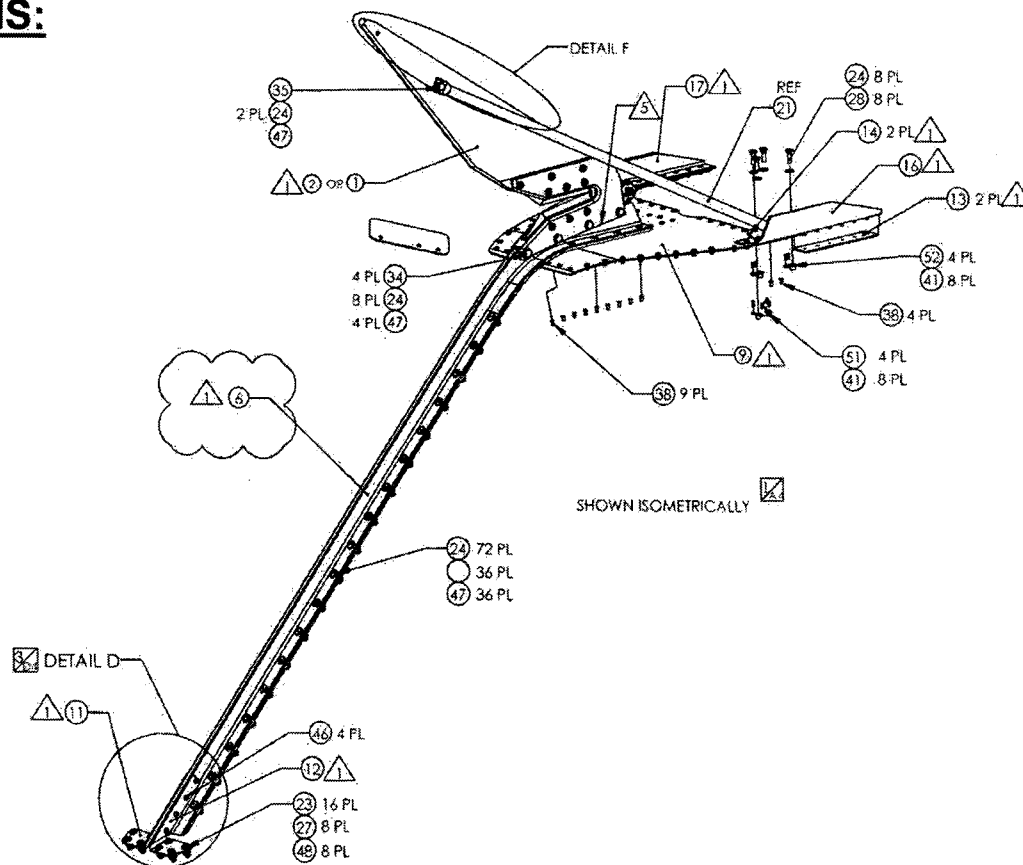
ECR:

N/A

SHEET 1, ZONE C5 IS:

ACTION ITEM:

1.



57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF			
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY			
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION		MATERIAL	SPECIFICATION
			QTY							
DOCUMENTS EFFECTED:							CHANGE CATEGORY		DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR		☐ YES ☒ NO	

REFERENCE ONLY

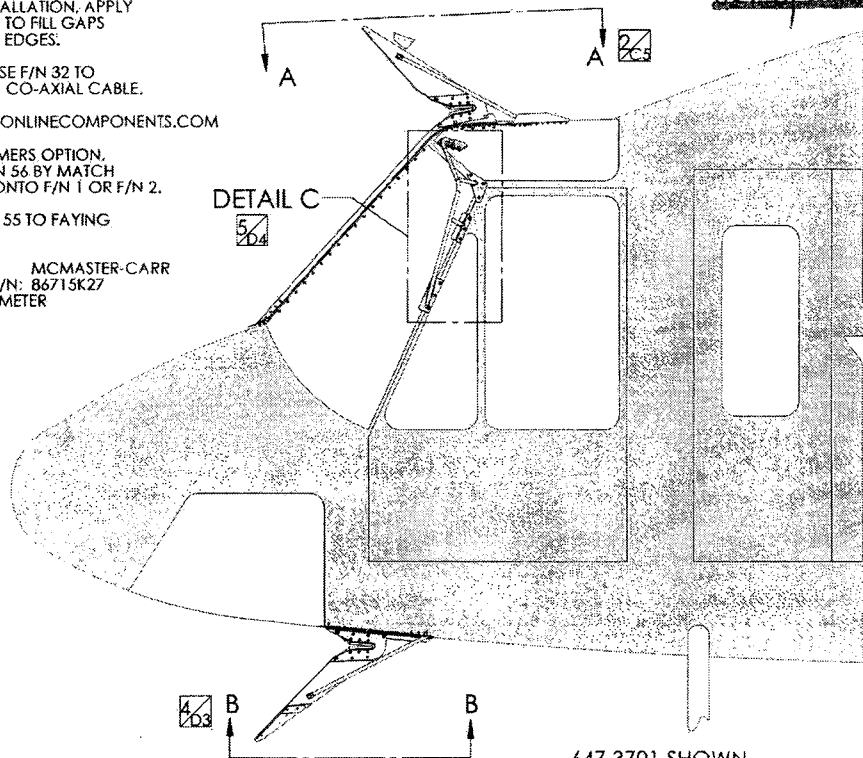
UNINCORPORATED ECN(S)

01728, 04845, 04881

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD, USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER



647.3701 SHOWN

REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT	
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCITE 598
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-125 CLASS B
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	MIL-R-3065
4	4	4	4	52	601.2957	NUTPLATE	MS21071-2
4	4	4	4	51	600.0795	NUTPLATE	MS21047-3
6	6	6	6	50	601.3066	NUTPLATE	MS21047-08
6	6	6	6	49	601.3065	NUTPLATE	MS21047-06
18	18	18	18	48	601.2973	LOCKNUT	MS21042-08
79	79	79	79	47	601.2943	LOCKNUT	MS21042-3
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4-8
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4-6
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4-4
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-3
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L SPEC.

REV.	DESCRIPTION	DATE	APPROVED
1	LAST INCORPORATED REVISION (PRI)		N/C
2	REVISION RELEASE	09-24-09	P. DEAYO

16	16	16	16	41	601.2207	NUTPLATE RIVET	CC32455-3-03
12	12	12	12	40	601.2491	NUTPLATE RIVET	CC32455-3-04
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-2
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3
5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2
6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1
2	2	2	2	35	601.1874	BOLT	AN3C10A
8	8	8	8	34	601.2826	BOLT	AN3-11A
3	3	3	3	33	601.2823	BOLT	AN3-4A
1	1	1	1	32	601.3073	CONNECTOR	D87-4445
8	8	8	8	31	601.2419	SCREW	MS2469A-533
1	1	1	1	30	601.3070	SCREW	MS2469A-549
2	2	2	2	29	601.2893	SCREW	MS27039-08-1
14	14	14	14	28	601.3069	SCREW	MS27039-1-09
16	16	16	16	27	601.2263	SCREW	MS27039-0808
42	42	42	42	26	601.1365	SCREW	MS27039-1-10
12	12	12	12	25	601.2198	SCREW	MS27039-1-07
157	157	157	157	24	601.1607	WASHER	NAS1149F0332P
34	34	34	34	23	601.2764	WASHER	NAS1149F0332P
1	1	1	1	22	647.4313	RH UPPER STRUT	
1	1	1	1	21	647.4312	LH UPPER STRUT	
1	1	1	1	20	647.4310	LH LOWER STRUT	
1	1	1	1	19	647.4311	RH LOWER STRUT	
1	1	1	1	18	647.4212	PLATE	
1	1	1	1	17	647.4211	BRACKET RH	
1	1	1	1	16	647.4210	BRACKET LH	
1	1	1	1	15	647.4116	SHIM	
2	2	2	2	14	647.4115	SHIM	
2	2	2	2	13	647.4114	SHIM	
1	1	1	1	12	647.4113	CLIP	
1	1	1	1	11	647.4112	CLIP	
1	1	1	1	10	647.4111	DOUBLER	
1	1	1	1	9	647.4110	DOUBLER	
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH	
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH	
1	1	1	1	6	647.3915	DEFLECTOR	
1	1	1	1	5	647.4410	RAIL	
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH	
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY	
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY	
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH	
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW	
					647.3702	412 CABLE CUTTERS KIT HIGH	
					647.3701	412 CABLE CUTTERS KIT LOW	
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L SPEC.

QTY	DESCRIPTION	MAT'L	SPEC.
1	204, 205, 212 CABLE CUTTERS KIT HIGH		
1	204, 205, 212 CABLE CUTTERS KIT LOW		
1	412 CABLE CUTTERS KIT HIGH		
1	412 CABLE CUTTERS KIT LOW		

ORIGINAL DATE	09-24-09
DRAWN BY	J. M. CRYON
CHECKED BY	D. BARRETT
DESIGNED BY	P. DEAYO
APPROVED BY	
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, DECIMALS ARE TO 3 PLACES, FRACTIONS ARE TO 16 PLACES, DECIMALS ARE TO 3 PLACES, FRACTIONS ARE TO 16 PLACES.	

APICAL INDUSTRIES	2408 TEMPLE HEIGHTS DR.	OCEANSIDE, CA. 92056-3512	(760) 724-5300
412 CABLE CUTTERS KIT			
REV. B	CAGE CODE 071A26	QTY. 1	REV. N/C
SCALE NONE		SHEET 1 OF 5	

Ship June 16

Work Order ID 147127

147127

Thursday, June 02, 2016 11:10:11 AM

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Item ID: 647.3702 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: 412 Cable Cutter System, High
 Start Date: 6/3/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 6/16/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: dem Date: 16/06/02 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3	0.00 9-58							
100	DOCUMENT CONTROL	0.00							
100									
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.3702								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.01							
Quality Control									

JUN 07 2016

MC5

JUN 08 2016

DAS
6
9-58

JUN 07 2016